

19 June 1959

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Attention:

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Dear

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With reference to the meeting held 19 June 1959 to discuss the modification of the Bausch and Lomb micrograph cameras, the following points are noted. The basic requirement for this equipment is the production of high quality micrographs at 10X and 20X with maximum resolution permitted by the optics available.

The emulsion which will be used as a reproducing medium has a capability of 600 lines per millimeter. This means that the lens/light source combination must be accurately positioned to ensure maximum use of this potential. The HBO 200 mercury vapor light source is capable of producing a collimated light beam. It is considered essential that the condenser/lens combination is so positioned as to bring this to a focus at the lens nodal point when accurately in focus for either 10X or 20X. At such magnifications, vibration is an important factor to consider. Therefore, the whole unit must be mounted to ensure freedom from vibration during operation.

Regarding modifications to the equipment which was first delivered:

1. The whole lens and light system must be optically aligned and rigid.
2. Adequate registration of the light source must be provided.
3. Provision must be made for any point on the 70mm film to be brought to the optical center.
4. Film traverse both across the platen and up and down the platen must be such that
 - (a) Fine adjustment can be made.
 - (b) The film surfaces are both protected from damage.

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5. An interlock system must be provided in the film platen to avoid any possibility of film movement while the platen is locked.
6. Film platen must be at least 140mm wide to afford full protection of the film from edge to edge.
7. All focus movements must be provided with fine mechanical adjustment.
8. There must be no points where camera bellows wear can occur through movement.
9. The equipment should be finished to ensure cleanliness during operation.
10. If there was any error in your original estimate or if there is any possibility that you might exceed this amount of money, please contact this office immediately.

Very truly yours,

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Distribution:

Orig - Addressee

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2 - D/PIC files

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